Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative Snow Surveys and Water Supply Forecasts for WYOMING

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF

FEB. 1, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its cooperators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. 5th Avenue
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande, and Platte-Arkansas River Basins	Issued monthly February through May by SCS and Colorado Experiment Station, Fort Collins, Colorado.*
Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman, Montana.*
West-Wide Water Supply Outlook	Issued April 1 by Soil Conservation Service and Cooperators, Portland, Oregon.

STATE REPORTS:

Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*
Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*
Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*
Wyoming	Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued
February 1, 1956

Report Prepared
by
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Soil Conservation Service
and
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PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

February 1, 1956

Conditions throughout the state of Wyoming are considerably brighter than the prospects of one year ago. Most of the State entered the winter with near normal moisture in the soil, with the result that less water will be taken from the snow pack when the runoff occurs. The water contents of 145 snow courses, in Wyoming and on the drainage into the state, are ranging from 135 percent to 177 percent of average for this time of year.

A normal runoff is almost assured for the ensuing irrigation season and above normal prospects are excellent.

The serious side of the picture is the status of our reservoirs. The Wyoming system with a useable capacity of 4,500,000 acre-feet has a February 1 storage content of 1,400,000 acre-feet--30 percent of useable capacity and 65 percent of normal for this time of year.

If, during the next two months, the snow pack deviates from the expected normal increase, adjustments will be made in the forecast of stream flow. The maximum accumulation of water in the mountain snow fields generally occurs on April 1, and the forecast that is made at that time will indicate closely the above normal, normal, or subnormal supplies for the irrigation season.

SNAKE RIVER BASIN

The Snake River Basin above Moran contains a snow pack of 177 percent of the 1938-1952 norm. The soil beneath the pack received 5.4 inches of moisture last fall, raising it to 115 percent of normal. Assuming average precipitation for the next few months, the discharge of the Snake into Jackson Lake is expected to be 1,184,000 acre-feet of water,--about 1.4 times the average runoff and 1.6 times last year's water supply. Jackson Lake storage was 350,400 acre-feet of water, which is 73 percent of the February 1, average.

Ranging downstream from Moran, the pack on the Pacific Creek watershed indicated 159 percent of normal, or 264,000 acre-feet of runoff during the April 1, to September 30, period.

Buffalo Fork will run 474,000 acre-feet or 133 percent of the 1938-1952 norm.

The Gros Ventre and the Hoback are both standing at 146 percent of average, indicating a discharge of 381,000 acre-feet for the Gros Ventre and 565,000 acre-feet from the Hoback watershed.

The total Snake River drainage area above the Wyoming-Idaho State line contains 110-115 percent of the average amount of moisture in the soil, 145 percent of the average amount of moisture in the snow pack and indicates a discharge into Idaho of 4,125,000 acre-feet of water.

The Salt, which enters the Snake River below the state line will run somewhat less than the balance of the basin. The expected discharge at this point is estimated to be 432,000 acre-feet, or about 120 percent of normal.

GREEN RIVER BASIN

Conditions in the Green River Basin are also good. Soil storage is about $\frac{1}{2}$ inch less than average, but the heavier than usual snow pack for this time of year indicates above normal water supplies.

The Green River at Warren Bridge is expected to run 397,000 acre-feet of water, which is 119 percent of the 1938-1952 season norm and the discharge of the New Fork at Boulder is forecasted at 292,000 for 118 percent.

NORTH PLATTE BASIN

The February 1 snow pack on the North Platte drainage in Colorado and Wyoming is 55 percent above normal. Soil moisture is above average under the snow in the mountains of Wyoming and near normal along the Continental Divide in Colorado. A normal inflow to Seminoe Reservoir is almost assured for 1956. The outlook from snow pack alone is approximately the same as the heavy snow year of 1952. However, the possibility of a runoff in the 1952 range is remote for 1956. Storage in the four major reservoirs on the North Platte drainage in Wyoming is now 875,000 acre-feet, most of which is assigned to the Alcova project. Again in reference to 1952, storage is about one-half of what was available at that time. There is plenty of capacity for any runoff from snow melt. Current stream flow is about normal. Surface soil moisture conditions are relatively good. The general water supply outlook for the main stem of the North Platte is good and much improved over the past two years.

On the Laramie River moisture conditions in Wheatland area are reported as poor and there is practically no storage. The snow pack in the Laramie watershed is well above normal and runoff is expected to be at least normal for the next snow melt season.

WIND RIVER and BIG HORN BASIN

The Wind River Basin above Boysen Reservoir contains a snow pack that measured 146 percent of normal on February 1. This is almost 3 times the watershed storage of one year ago and assures this basin of at least average runoff. If the March 1, and April 1, snow surveys find the normal increase on the snow courses, the April-September runoff will be considerably better than average.

The pack on the Popo Agie drainage, at the southern end of the Wind River range is up to 174 percent of normal, which is almost four times the mountain storage of February 1, 1955.

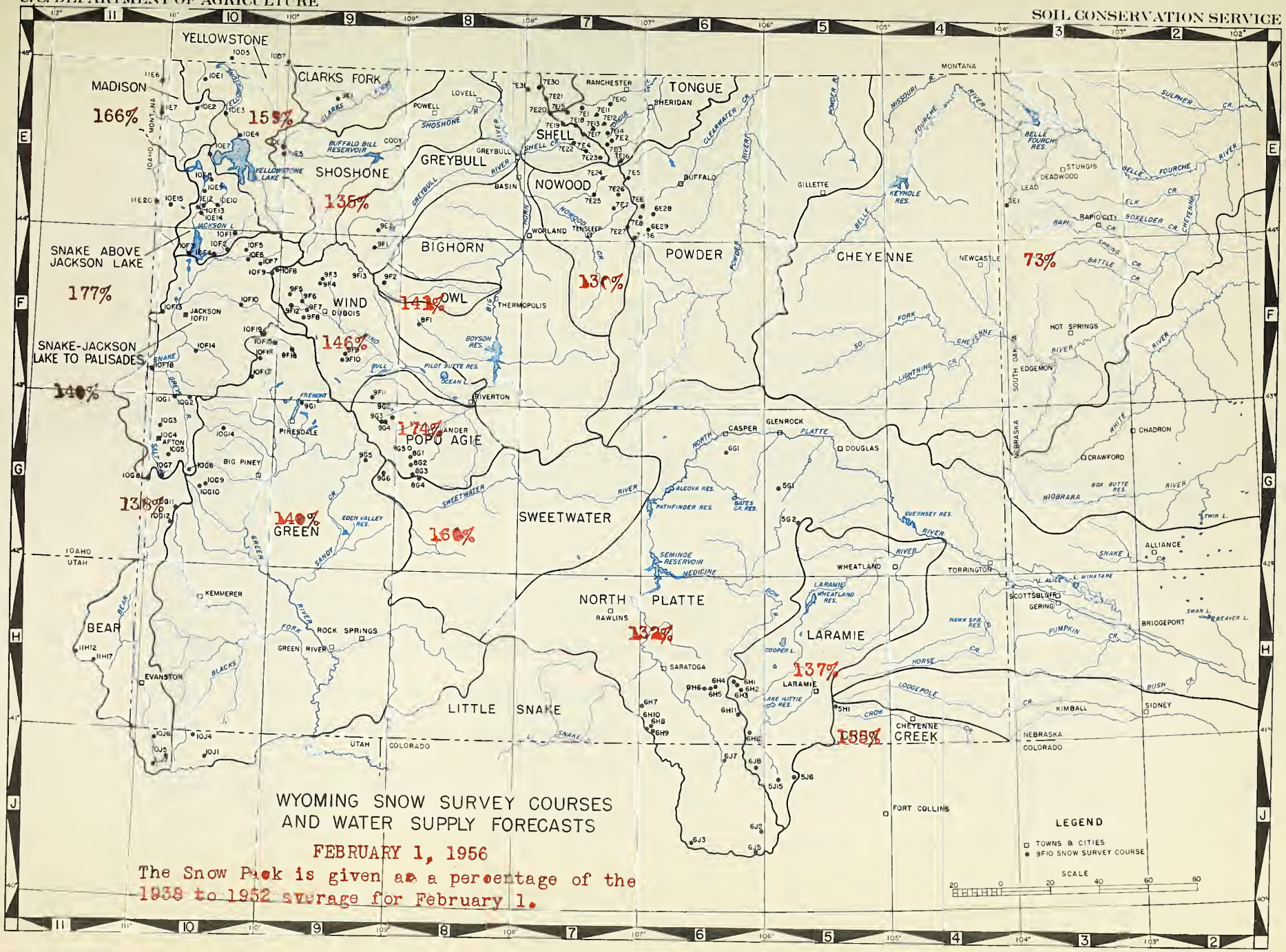
The snow pack below Boysen Reservoir is also well above its normal water content, as indicated by the Owl Creek drainage which is standing at 141 percent and the Shoshone River basin at 135 percent. Buffalo Bill storage is down to 140,000 acre-feet, representing only 50 percent of its normal contents for this time of year, and Boysen Reservoir is at a new low for its short record--24 percent of last years contents.

BIG HORN MOUNTAINS

Accurate records are not, as yet, available for this area. Last fall, the Soil Conservation Service layed out an extensive network in this range and a few years will elapse before data will be available for comparison and correlation, however, from the few old courses that have past records, the same optimistic picture appears. Soil moisture is close to normal and the snow pack considerably above normal.

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE



INDEX TO WYOMING SNOW COURSES

Drainage Basin and Course Name	Wyoming Number	Elev.	LOCATION Sec. Lat.	Twp.	Range Long.	Record Began	Meas. Dates[a]	Meas. By[b]
MISSOURI RIVER DRAINAGE								
MADISON RIVER								
Norris Basin	10E2	7500	44°44'		110°42'	1936	3,4	2
21 Mile *m	11E6	7150	1	11S	5E	1934	1,2,3,4,5	6
West Yellowstone *m	11E7	6700	34	13S	5E	1934	1,2,3,4,5	6
YELLOWSTONE								
Canyon	10E3	7750	44°44'		110°30'	1938	1,2,3,4,5	1
Cooke City *m	10D7	7400	25	9S	14E	1937	1,2,3,4,5	2
Crevice Mountain *m	10D5	8400	22	9S	9E	1935	3,4	4
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
Lake Camp	10E4	7850	44°34'		110°24'	1937	1,2,3,4,5	1
Lupine Creek	10E1	7300	44°54'		110°37'	1938	1,2,3,4,5	2
Thumb Divide	10E7	7300	44°22'		110°35'	1946	2,3,4	5
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
CLARK'S FORK								
Lodgepole	9E1	8200	32	56N	106W	1940	2,3,4,5	1,4
WIND RIVER								
Big Warm	9F12	8800	36	42N	109W	1955	2,3,4,6	1
Brooks Lake #3	10F8	9200	23	44N	110W	1939	2,3,4,5	1
Burroughs Creek	9F4	8800	16	43N	107W	1948	2,3,4,5	1
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	1
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	1
DuNoir	9F6	8750	27	42N	108W	1940	2,3,4,5	1
East Fork	9F13	9200	23	44N	104W	1956	2,3,4,5	1
Geyser Creek	9F7	8500	12	41N	108W	1948	2,3,4,5	1
Little Warm	9F8	9500	24	41N	108W	1948	2,3,4,5	1
Sheridan R.S. #1 *f	9F5	7500	3	42N	109W	1939	2,3,4,5	1
Sheridan R.S. #2	9F14	7500	3	42N	109W	1955	2,3,4,5	1
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4	5
POPO AGIE RIVER								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Bruce's Camp	8G5	6500	24	32N	101W	1965	2,3,4	1
Hobbs Park	9G3	10000	22	2S	3W	1948	2,3,4,5	1
Mosquito Park R.S.	9G4	9500	23	2S	3W	1940	2,3,4,5	1
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
St.Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	1
Trout Creek	9G2	8400	5	2S	2W	1948	2,3,4,5	1
OWL CREEK								
Beavers Mill	9F2	8900	6	43N	102W	1948	2,3,4,6	1
Owl Creek	8F1	8700	36	43N	101W	1948	2,3,4,5	1
GREYBULL RIVER								
Timber Creek #1	9E2	8800	25	47N	103W	1948	2,3,4,5	1
Timber Creek #2	9E3	8800	25	47N	103W	1956	2,3,4,5	1
Wood River #1	9F1	8000	28	46N	103W	1939	2,3,4,5	1
Wood River #2	9F15	8000	28	46N	103W	1956	2,3,4,5	1
SHOSHONE RIVER								
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2
NOWOOD CREEK								
Cold Springs Camp	7E25	8700	1	50N	88W	1956	2,3,4,5	1
Medicine Lodge Lakes	7E24	9500	7	51N	87W	1956	2,3,4,5	1
Munkers Pass *d	7E8	9700	11	48N	85W	1950	2,3,4,5	1
North Powder #2 *e	7E38	8300	20	47N	85W	1956	2,3,4,5	1
Onion Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1
Tensleep Lake	7E26	9075	33	50N	86W	1956	2,3,4,5	1
Tensleep R.S.	7E7	8300	30	49N	86W	1935	2,3,4,5	1
Tyrell R.S.	7E35	8300	30	49N	86W	1956	2,3,4,5	1
SMELL CREEK								
Bald Mountain	7E21	9600	33	56N	91W	1956	2,3,4,6	1
Beaver-Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1
Bone-Spring Divide	7E18	9200	32	55N	89W	1956	2,3,4,5	1
Granite Creek Camp	7E22	7800	15	53N	89W	1956	2,3,4,5	1
Granite Pass	7E17	8950	19	54N	88W	1956	2,3,4,5	1
Horse-Trail Divide	7E19	9200	29	55N	90W	1956	2,3,4,5	1
Ranger Creek	7E4	8800	32	53N	86W	1935	2,3,4,5	1
Shell Creek	7E23	9600	12	52N	88W	1956	2,3,4,5	1
PORCUPINE CREEK								
Five Springs Falls	7E31	7500	19	56N	92W	1956	2,3,4,5	1
Medicine Wheel	7E30	9000	24	56N	92W	1956	2,3,4,5	1
TONGUE RIVER								
Beaver Tongue Divide	7E20	9200	12	55N	91W	1956	2,3,4,5	1
Big Goose #1	7E2	7700	4	53N	86W	1935	2,3,4,5	1
Big Goose #2	7E32	7700	4	53N	86W	1955	2,3,4,5	1
Bone-Spring Divide	7E18	9200	32	55N	89W	1956	2,3,4,5	1
Burgess R.S. #1	7E1	7900	36	56N	89W	1950	2,3,4,5	1
Burgess R.S. #2	7E33	7900	36	56N	89W	1955	2,3,4,5	1
Ocme Lake #1	7E3	8800	11	53N	87W	1950	2,3,4,5	1
Ocme Lake #2	7E34	8600	11	53N	87W	1950	2,3,4,5	1
Gloom Creek	7E14	9300	32	55N	87W	1956	2,3,4,5	1
Granite Pass	7E17	8950	19	54N	88W	1956	2,3,4,5	1
Horse-Trail Divide	7E19	9200	29	55N	90W	1956	2,3,4,5	1
Lake Geneva	7E16	9000	7	52N	86W	1956	2,3,4,5	1
North Tongue	7E15	8800	17	55N	89W	1956	2,3,4,5	1
Sibley Lake	7E11	8000	10	55N	88W	1956	2,3,4,5	1
Sucker Creek	7E12	9000	19	55N	87W	1956	2,3,4,5	1
Steamboat Point	7E10	7500	32	58N	87W	1955	2,3,4,6	1
Wood Rock G.S.	7E13	8500	3	54N	88W	1956	2,3,4,5	1
POWDER RIVER								
Crazy Woman	7E29	8200	8	47N	84W	1958	2,3,4,5	1
Muddy Creek G.S.	7E28	7800	2	48N	84W	1958	2,3,4,5	1
Munkers Pass *d	7E8	9700	11	48N	85W	1950	2,3,4,5	1
North Powder #2 *e	7E38	8300	20	47N	85W	1958	2,3,4,6	1
Onion Gulch	7E27	8100	31	48N	85W	1956	2,3,4,5	1
Soldier Park	7E5	8700	35	51N	86W	1950	2,3,4,5	1
Sour Dough	7E6	8500	17	49N	84W	1936	2,3,4,5	1
SWEETWATER								
Grannier Meadows #1	8G4	9000	19	30N	100W	1937	2,3,4,5	1
Grannier Meadows #2	8G6	9000	19	30N	100W	1955	2,3,4,5	1
Larsen Creek	9G6	9000	12	30N	103W	1949	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1
LARAMIE RIVER								
Brooklyn Lake #1	6H1	10200	11	16N	79W	1936	2,3,4,5	1
Brooklyn Lake #2	6H13	10200	11	16N	79W	1956	2,3,4,5	1
Deedman Hill *e	5J6	10200	26	10N	75W	1937	3,4,5	
Fox Park	6H12	9200	21	13N	76W	1936	2,3,4,5	4
Hairpin Turn #2	6H2	9500	24	16N	79W	1936	2,3,4,5	1,4
Libby Lodge #2	6H3	8700	29	16N	78W	1936	2,3,4,5	1,4
McIntyre *e	6J15	9100	35	10N	76W	1949	2,3,4,5	
Pole Mountain #2	5H1	8700	35	15N	72W	1936	2,3,4,5	1,4
Roach *e	6J8	9800	5	10N	77W	1940	2,3,4,5	1
Pole Mountain #2	5K1	8700	35	15N	72W	1936	2,3,4,5	1,4
NORTH PLATTE								
Albany	6N11	9400	18	14N	76W	1949	2,3,4,5	1
Battle Creek	6N8	8200	24	14N	85W	1936	2,3,4,5	1,4
Boxelder	5G1	9000	31	30N	75W	1950	2,3,4,5	1
Casper Mountain	6G1	8700	16	32N	79W	1954	1,2,3,4,5	1
Columbine *e	6J3	9300	21	5N	82W	1936	2,3,4,5	1
Fox Park	6H12	9200	21	13N	78W	1936	2,3,4,5	4
LaBonte	5G2	8450	11	27N	74W	1949	2,3,4,5	1
North Berrett Creek #2	6H5	9400	30	16N	80W	1938	2,3,4,5	1,4
North French Creek #1	6H4	10200	27	16N	80W	1938	2,3,4,5	1,4
North French Creek #2	6H14	10200	27	16N	80W	1956	2,3,4,5	1,4
Northgate *e	6J7	8500	7	11N	79W	1950	2,3,4,5	
Old Battle	6H10	9800	29	14N	85W	1938	2,3,4,5	1,4
Park View *e	6J2	9200	24	5N	78W	1936	2,3,4,5	
Ryan Park #2	6H6	8400	34	16N	81W	1936	2,3,4,5	1,4
Spring Creek	6H7	9000	32	15N	85W	1949	2,3,4,5	1,4
Webber Spring	6H9	9000	27	14N	85W	1956	2,3,4,5	1,4
Willow Creek Pass *e	6J5	9500	1	4N	78W	1938	2,3,4,5	
CHEYENNE RIVER								
Upper Spearfish *s	3E1	6600	21	3N	1E	1944	2,3,4	4
COLORADO RIVER DRAINAGE								
GREEN RIVER								
Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1
Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4,5	1
Dutch Joe R.S.	9G5	8700	32	37N	104W	1936	2,3,4,5	1
East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	1
Green River Lakes	9F16	8100	30	39	106W	1956	2,3,4,5	1
Gros Ventre	10F19	8750	36	40N	114W	1948	2,3,4,5	1
Hewinta R.S. *u	10J4	9500	33	3N	13E	1930	4	
Hole-in-the-Rock *u	10J1	9150	13	2N	15E	1931	4	
Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1
Kendall R.S.	10F15	7900	23	38N	110W	1936	2,3,4,5	1
Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1
Mulligen Park	9G1	8900	17	35N	108W	1936	2,3,4,5	1
Old Battle	6H10	9800	29	14N	85W	1936	2,3,4,5	1,4
Piney-LeBerge	10G10	8820	19	29N	114W	1937	2,3,4,5	1
Poison Meadows	10G6	8500	29	30N	118W	1948	2,3,4,5	1
Snyder Basin R.S. #1	10G9	8040	15	29N	114W	1937	2,3,4,5	1
Snyder Basin R.S. #2	10G13	8040	15	29N	114W	1956	2,3,4,5	1
Soda Lake	10G14	8300	14	33N	115W	1955	2,3,4,5	1
COLUMBIA RIVER DRAINAGE								
SNAKE RIVER BASIN (Above Jackson Lake)								
Arizona	10F1	6850	3	46N	113W	1919	2,3,4	5
Aster Creek	10E8	7700	44°17'		110°37'	1919	2,3,4	5
Base Camp	10F2	6300	20	46N	113W	1947	2,3,4	5
Coulter Creek	10E10	7600	44°09'		110°33'	1919	2,3,4	2
Glade Creek	10E13	7200	44°08'		110°44'	1919	2,3,4	5
Grassy Lake	10E15	7265	6	48N	117W	1940	2,3,4,5	5
Huckleberry Divide	10E14	7300	32	48N	116W	1919	2,3,4	5
Lewis Lake Divide	10E9	7900	44°13'		110°40'	1919	2,3,4,5	5
Moran	10F4	6800	8,17	45N	114W	1919	2,3,4	5
Moran Bay	10F3	6800	14	45N	116W	1919	2,3,4	5
Snake River Station	10E12	6780	44°08'		110°40'	1919	2,3,4	5
Thumb Divide	10E7	7900	44°22'		110°35'	1951	2,3,4	5
JACKSON LAKE TO PALISADES								
Afton R.S.	10G4	6200	30	32N	118W	1936	2,3,4,5	4
Bleckrock	10F7	8600	4	44N	111W	1936	2,3,4	5
Blind Bull	10G2	8750	6	34N	115W	1948	2,3,4,5	1
Bryan Flat	10F14	8250	9	38N	115W	1938	1,2,3,4,5	1
CCC Camp	10G7	7500	9	29N	118W	1936	2,3,4,5	1,4
Cottonwood Lake	10G5	7500	25	31N	118W	1935	2,3,4,6	1,4
Deedman Ranch	10G1	6534	28	35N	115W	1938	1,2,3,4,5	1
East Rim Divide	10F17	7950	32	37N	111W	1936	1,2,3,4,5	1
Four Mile Meadows	10F6	7770	35	45N	112W	1936	2,3,4,5	5
Greys Boundary	10F18	5800	33	37N	116W	1936	1,2,3,4,5	1,4
Gros Ventre	10F19	8750	36	40N	111W	1948	2,3,4,5	1
Grover Park Divide	10G3	7500	27	33N	116W	1936	1,2,3,4,5	1,4
Loomis Park	10F16	8500	14	37N	111W	1936	2,3,4,5	1
Poison Meadows	10G6	8500	29	30N	116W	1949	2,3,4,5	1
Teton Pass #2	10F13	8500	24	41N	118W	1938	1,2,3,4,5	1,4
Togwotee Pass	10F9	9600	29	44N	110W	1936	2,3,4,5	5
Turpin Meadows	10F5	6930	14	45N	112W	1936	2,3,4	5
Yellowjacket	10F10	7675	33	42N	112W	1936	2,3,4,5	4
Salt River Summit	10G8	7900	32	29N	118W	1948	2,3,4,5	1,4
Snow King Mountain #1	10F11	7600	4	40N	117W	1949	Semi Mo.	1
Snow King Mountain #2	10F12	7600	4	40N	117W	1954	Semi Mo.	1
BEAR RIVER								
Big Park	10G11	8700	7	27N	117W	1951	2,3,4,5	1
CCC Camp	10G7	7500	9	29N	118W	1936	2,3,4,5	1,4
Girl Hollow *u	11H17	8400	5	7N	5E	1951	3,4,5	
Goodman Ranch *u	10J6	7900	19	3N	10E	1937	4	
Hayden Park *u	10J7	9300	1	1S	9E	1961	4,5	
Head of Bear River *u	10J5	8600	15	2N	10E	1935	4	
Kelly R.S.	10G12	8200	13	26N	118W	1951	2,3,4,5	1
Monte Cristo, R.S. *u	11H12	8960	3	8N	4E	1930	3,4,5	
Poison Meadows	10G6	8500	29	30N	116W	1948	2,3,4,5	1
Salt River Summit	10G8	7900	32	29N	118W	1948	2,3,4,5	1,4

a. Numerals 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey, as follows:
   1. Soil Conservation Service.
   2. U. S. National Park Service.
   3. U. S. Indian Service.
   4. U. S. Forest Service.
   5. U. S. Bureau of Reclamation.
   6. U. S. Geological Service.

c. Colorado snow courses.

d. Formerly Muddy Pass.

e. North Powder #1 destroyed.

f. Sheridan Creek partially destroyed.

m. Montana snow courses.

s. South Dakota snow courses.

u. Utah snow courses.

SS-13488

COOPERATIVE SNOW SURVEYS
Summary of Snow Measurements

February 1, 1956

WATERSHEDS	NO. OF COURSES AVERAGED	YEARS OF RECORD	1956 SNOW WATER EXPRESSED AS PERCENTAGE OF 1955	1954	Average
Madison River	2	18	243%	144%	166%
Yellowstone Park	5	9-14	273%	150%	159%
Wind River	4	14-20	287%	146%	146%
Popo Agie	5	12-14	392%	176%	174%
Owl Creek	2	7	260%	110%	141%*
Shoshone River	1	12	358%	155%	135%
Sweetwater River	2	14	326%	160%	169%
Laramie River	8	7-20	195%	218%	137%
Crow Creek	1	19	165%	267%	155%
North Platte River	13	7-20	177%	189%	132%
Cheyenne River	1	12	72%	82%	73%
Snake Above Jackson Lake	11	9-26	281%	158%	177%
Snake-Jackson Lake to Palisades	10	11-20	232%	139%	140%
Bear River	1	20	210%	132%	138%

* All past records

VALLEY PRECIPITATION
In Percent of Normal

Basin	Jan.	Febr.	Mar.	Apr.
Wind River	110%			
Shoshone River	110%			
Big Horn River	95%			
Tongue River	80%			
Powder River	70%			
North Platte	130%			
Laramie River	125%			

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
MADISON RIVER - YELLOWSTONE PARK									
Norris Basin	10E2	7500	1/31	39	9.9	4.5	8.9	8.5**	6
21 Mile[m]	11E6	7150	1/27	61	18.7	7.6	13.5	11.1	18
West Yellowstone[m]	11E7	6700	1/27	48	12.7	5.3	8.3	7.8	18
UPPER YELLOWSTONE - YELLOWSTONE PARK									
Canyon	10E3	7750	2/1	56	15.0	7.8	11.5	10.1**	10
Cooke City[m]	10D7	7400	2/1	32	8.9	3.4	8.1	6.1**	9
East Entrance	10E6	7000	2/1	43	12.8	2.9	8.3	9.9**	7
Lake Camp	10E4	7850	2/1	56	15.0	3.2	7.4	8.4**	11
Lupine Creek	10E1	7300	1/31	44	13.0	6.1	7.8	6.5**	14
Thumb Divide***	10E7	7900	2/1		26.5	est.8.2	17.3	18.2**	9
LOWER YELLOWSTONE - CLARK'S FORK									
Lodgepole	9E1	8200	2/1	45	12.6				
LOWER YELLOWSTONE - WIND RIVER									
Big Warm	9F12	8800	2/1	41	10.6	1.7			1
Brooks Lake	10F8	9200	1/31	74	23.8	9.7	15.3	17.2**	15
Burroughs Creek	9F4	8800	2/2	54	17.0	4.4	11.0	13.2**	7
Dinwoodie	9F10	10000	2/3	42	11.8	2.9	6.5	11.2**	7
Dry Creek	9F9	9500	2/3	30	7.6	1.7	3.5	5.8**	7
DuNoir	9F6	8750	2/1	37	8.9	1.0	5.5	6.7**	14
Geyser Creek	9F7	8500	2/1	36	8.9	1.5	5.5	6.8**	7
Little Warm	9F8	9500	2/1	60	17.9	5.0	11.1	16.9**	6
Sheridan R.S.#2	9F14	7500	1/31	56	8.3	2.3	5.1	5.7**	1
T-Cross Ranch	9F3	8000	2/2	33	8.3	2.2	6.2	5.1**	15
Togwotee Pass	10F9	9600	1/30	86	29.4	11.6	21.1	19.2	20

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content(In.) 1955	1954	Previous 1938-52 Avg.	Yrs. of Record
LOWER YELLOWSTONE - POPO AGIE RIVER									
Blue Ridge	8G2	9500	2/6	47	15.6	3.9	8.8	8.0**	14
Bruce's Camp	8G5	6500	2/6	6	0.8				
Hobbs Park	9G3	10000	2/5	58	19.3	4.5	12.3	15.0**	7
Mosquito Park R.S.	9G4	9500	2/5	34	8.9	2.0	5.3	5.9**	12
Sawmill Glade	8G1	8500	2/6	30	8.0	2.2	4.7	5.1**	14
South Pass	8G3	9000	2/6	51	17.0	5.5	10.6	9.6**	14
St. Lawrence R.S.	9F11	9000	2/4	30	8.9	1.3	3.7	5.0**	12
Trout Creek	9G2	8400	2/5	18	4.0	0.8	4.2	3.8**	7
LOWER YELLOWSTONE - OWL CREEK									
Beavers Mill	9F2	8900	2/9	30	7.2	3.8	6.4	5.4**	7
Owl Creek	8F1	8700	2/9	24	5.8	1.2	5.4	4.3**	7
LOWER YELLOWSTONE - GREYBULL RIVER									
Timber Creek #1	9E2	8800	1/31	20	2.7	0.9	NR		4
Timber Creek #2	9E3	8800	1/31	13	1.5				
Wood River #1	9F1	8000	2/1	22	3.0	1.0	4.9		3
LOWER YELLOWSTONE - SHOSHONE RIVER									
East Entrance	10E6	7000	2/1	43	12.8	2.9	8.3	9.9**	7
Sylvan Pass	10E5	7100	2/1	49	14.7	4.1	9.5	10.9**	12
LOWER YELLOWSTONE - NOWOOD CREEK									
Cold Springs Camp	7E25	8700	2/6	28	6.2				
Medicine Lodge Lakes	7E24	9500	2/6	38	9.2				
Munkres Pass[d]	7E8	9700	2/3	37	9.0				1

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
LOWER YELLOWSTONE - NOWOOD CREEK (Con't.)									
Onion Gulch	7E27	8100	2/3	36	8.2				
Tensleep Lake	7E26	9075	2/5	38	9.4				
Tensleep R.S.	7E7	8300	2/5	32	6.6				
LOWER YELLOWSTONE - SHELL CREEK									
Bald Mountain	7E21	9600	1/27	56	14.3				
Beaver-Tongue Div.	7E20	9200	1/27	54	14.1				
Bone-Spring Div.	7E18	9200	1/26	52	13.6				
Granite Cr. Camp	7E22	7800	2/7	21	4.3				
Granite Pass	7E17	8950	1/26	52	13.5				
Ranger Creek	7E4	8800	2/7	34	7.6				
Shell Creek	7E23	9600	2/7	48	12.2				
LOWER YELLOWSTONE - PORCUPINE CREEK									
Five Springs Falls	7E31	7500	1/31	20	4.6				
Medicine Wheel	7E30	9000	1/27	43	10.2				
LOWER YELLOWSTONE - TONGUE RIVER									
Beaver-Tongue Div.	7E20	9200	1/27	54	14.1				
Big Goose #2	7E32	7700	1/29	31	6.6				
Bone-Spring Div.	7E18	9200	1/26	52	13.6				
Burgess R.S. #2	7E33	7900	1/27	29	5.9				
Dome Lake #2	7E34	8800	1/29	36	8.0				
Gloom Creek	7E14	9300	1/25	38	8.9				
Granite Pass	7E17	8950	1/26	52	13.5				
Lake Geneva	7E16	9000	1/29	32	7.0				
North Tongue	7E15	8800	1/27	34	7.6				
Sibley Lake	7E11	8000	1/25	34	7.3				

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
LOWER YELLOWSTONE - TONGUE RIVER (Con't.)									
Sucker Creek	7E12	9000	1/25	34	8.0				
Steamboat Point	7E10	7500	1/25	22	5.0				
Wood Rock G.S.	7E13	8500	1/28	37	8.6				
LOWER YELLOWSTONE - POWDER RIVER									
Crazy Woman	7E29	8200	2/2	25	5.2				
Muddy Creek G.S.	7E28	7800	2/2	20	4.0				
Munkres Pass[d]	7E8	9700	2/3	37	9.0				
Onion Gulch	7E27	8100	2/3	36	8.2				
Soldier Park	7E5	8700	2/4	31	7.6	1.3	1.9		5
Sour Dough	7E6	8500	2/3	32	7.7				
NORTH PLATTE - SWEETWATER									
Grannier Meadows #1	8G4	9000	2/6	50	15.6	4.5	9.7	9.7**	14
Larsen Creek	9G6	9000	2/7	39	11.2				
South Pass	8G3	9000	2/6	51	17.0	5.5	10.6	9.6**	14
NORTH PLATTE - LARAMIE RIVER									
Brooklyn Lake #1	6H1	10200	1/31	62	19.3	11.3	8.6	13.6	18
Brooklyn Lake #2	6H13	10200	1/31	61	19.3				
Deadman Hill[c]	5J6	10200	1/29	54	14.0	5.7	6.1	7.3**	12
Fox Park	6H12	9200	1/27	28	5.8	3.4	1.7	5.5	20
Hairpin Turn #2	6H2	9500	1/31	35	9.9	4.5	3.7	7.1	18
Libby Lodge #2	6H3	8700	1/31	34	9.2	4.5	3.6	6.2	18
Pole Mountain #2	5H1	8700	2/2	19	4.8	2.9	1.8	3.1	19
Roach[c]	6J8	9800	2/4	48	14.0	8.2	9.5	10.7**	14

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	1956 Snow Depth (In.)	1956 Water Content (In.)	Past Record Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
NORTH PLATTE - CROW CREEK									
Pole Mountain #2	5H1	8700	2/2	19	4.8	2.9	1.8	3.1	19
NORTH PLATTE - ABOVE SEMINOE RESERVOIR									
Albany	6H11	9400	2/3	42	12.0	5.4	6.0	11.1**	7
Bottle Creek	6H8	8200	1/30	44	11.8	6.4	6.9	8.2	18
Boxelder	5G1	9000	1/30	11	2.8	NR	3.1		5
Cameron Pass[C]	5J1	10300	1/29	58	18.0	9.7	8.9	12.5	17
Casper Mountain	6G1	8700	2/3	29	7.0				
Columbine[C]	6J3	9300	1/31	70	21.1	13.9	8.9	14.3	20
Fox Park	6H12	9200	1/27	28	5.8	3.4	1.7	5.5	20
LaBonte	5G2	8450	1/29	14	3.3	3.8	3.5	4.7**	7
North Barrett Cr.#2	6H5	9400	1/31	56	15.5	8.9	8.7	11.5	18
North French Cr.	6H4	10200	1/31	76	23.1	12.8	14.8	16.7	18
Northgate[C]	6J7	8500	1/31	27	5.0	2.3	2.0		6
Old Battle	6H10	9800	1/30	84	25.0	13.5	12.5	19.2	18
Park View[C]	6J2	9200	1/31	27	6.5	3.3	3.8	6.0**	18
Ryan Park #2	6H6	8400	1/31	40	10.2	6.6	4.4	6.8	18
Spring Creek	6H7	9000	2/1	39	10.7	7.0	5.6		5
Webber Spring	6H9	9000	1/30	56	15.4	8.1	7.8	10.8	18
Willow Creek Pass[C]	6J5	9500	1/31	44	10.0	5.6	5.2	7.6**	16
MISSOURI - CHEYENNE RIVER									
Upper Spearfish[S]	3E1	6500	1/28	17	3.3	4.6	4.0	4.5**	12
UPPER COLORADO - GREEN RIVER									
Dutch Joe R.S.	9G5	8700	2/9	34	8.3				
East Rim Divide	10F17	7950	1/30	45	10.7	3.5			1
Green River Lakes	9F16	8100	2/8	25	4.8				

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record: Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
UPPER COLORADO - GREEN RIVER (Con't.)									
Gros Ventre Summit	10F19	8750	2/7	48	13.6				
Kendall R.S.	10F15	7900	2/3	29	9.8				
Loomis Park	10F16	8500	2/6	59	18.9				
Mulligan Park	9F1	8900	2/5	39	10.5				
*Old Battle	6H10	9300	1/30	84	25.0	13.5	12.5	19.2	18
Snyder Basin R.S.#2	10G13	8040	2/3	51	15.4				
SNAKE RIVER - ABOVE JACKSON LAKE									
Arizona***	10F1	6350	2/2	69	21.8	7.3	12.9	11.7	26
Aster Creek***	10E8	7700	2/2	106	36.8	10.7	23.4	20.0	26
*Base Camp***	10F2	6900	1/30	67	20.1	6.7	14.8	13.0**	9
Coulter Creek***	10E10	7600	1/31	85	24.0	10.1	16.8	13.8	26
Glade Creek***	10E13	7200	2/3	80	25.8	9.3	15.3	14.6	26
*Grassy Lake	10E15	7265	2/3	107	36.8	16.4	22.4	21.5**	16
Huckleberry Divide***	10E14	7300	2/2	73	22.9	8.5	12.6	12.5	26
Lewis Lake Divide***	10E9	7900	2/1	139	50.5	16.6	31.9	27.4	26
Moran***	10F4	6800	2/2	50	14.0	4.7	10.4	7.8	26
Moran Bay***	10F3	6800	1/31	76	22.8	7.3	14.5	13.5	26
Snake River Stat.***	10E12	6780	2/1	77	23.9	8.9	14.4	13.0	26
Thumb Divide***	10E7	7900	Est.	83	26.5	8.2	17.3	18.2**	9
JACKSON LAKE TO PALISADES									
Afton R.S.	10G4	6200	1/30	18	3.3	2.8	3.3	3.8	20
Blackrock	10F7	8600	1/30	69	21.9	7.8	15.7	14.8	20
Bryan Flat	10F14	6250	1/30	39	8.1	3.0	7.7	6.7	20
CCC Camp	10G7	7500	1/30	46	10.5	5.0	7.9	7.6	20
East Rim Divide	10F17	7950	1/30	45	10.7	3.5			1
Four Mile Meadows	10F6	7770	1/30	49	13.4	5.3	9.6	9.1	20
Greys Boundary	10F18	8300	1/30	38	7.8	5.5	9.0	7.5	20
Gros Ventre Summit	10F19	8750	2/7	48	13.6				

WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS 1956 Date of Survey	Snow Depth (In.)	Water Content (In.)	Past Record: Water Content (In.) 1955	1954	1938-52 Avg.	Previous Yrs. of Record
JACKSON LAKE TO PALISADES (Con't.)									
Grover Park Divide	10G3	7500	2/6	38	9.8	4.9	6.6	7.5	20
Loomis Park	10F16	8500	2/6	59	18.9				
Salt River Summit	10G8	7900	1/30	59	14.8	5.2	10.5	12.4**	7
Snow King Mtn. #1	10F11	7600	1/28	51	12.2	4.0	7.1		5
Snow King Mtn. #2	10F12	7600	1/28	45	10.0	3.7			1
Teton Pass #2	10F13	8500	1/31	113	35.6	15.6	20.7	25.0**	11
Togwotee Pass	10F9	9600	1/30	86	29.4	11.6	21.1	19.2	20
Turpin Meadows	10F5	6930	1/30	44	12.0	3.9	7.9	7.4	20
Yellowjacket	10F10	7675	2/5	32	7.3	NR	NR	4.3**	9
BEAR RIVER									
CCC Camp	10G7	7500	1/30	46	10.5	5.0	7.9	7.6	20
Monte Cristo R.S.u	11H12	8960	2/3	79	27.4				1
Salt River Summit	10G8	7900	1/30	59	14.8	5.2	10.5	12.4**	7

* Not located directly on this drainage.
** Average is for less than 15 years of record in the 1938-52 period.
*** Feb., 1930-1950 water contents estimated from Jan. 15 and Feb. 15 snow surveys and Snake River Station climatological data.
c. Colorado snow courses.
d. Formerly Muddy Pass.
e. North Powder #1 destroyed.
m. Montana snow courses.
s. South Dakota snow courses.
u. Utah snow courses.

STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - FEB. 1, 1956

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1956	1955	1954	15-Yr. Avg. 1938-1952
Snake River	Jackson	847.0	350.4	416.8	342.0	479.3
North Platte	Seminoe	981.8	275.7	298.2	221.4	385.9*
North Platte	Pathfinder	1011.0	348.6	420.1	808.9	362.3*
North Platte	Alcova**	190.5	4.0	112.8	67.1	82.5*
North Platte	Guernsey	39.8	23.1	11.8	36.9	34.9
North Platte	Southerland	185.0	56.8	42.6	48.6	47.6
North Platte	Kingsley	1935.0	824.5	1120.8	1485.0	1087.7*
North Platte	Minatare	60.8	21.0	19.9	23.3	23.4
Kansas Basin	Box Butte	31.6			14.6	19.2*
Kansas Basin	Bonny	39.9	35.6	36.0	37.8	18.5*
Kansas Basin	Swanson Lake	116.1	46.4	25.2	9.7	
Kansas Basin	Enders	36.0	31.0	34.1	28.9	20.0*
Kansas Basin	Harry Strunk	33.9	18.4	25.6	29.1	23.6*
Kansas Basin	Harlan County	252.9	71.6	66.8	30.3	
Kansas Basin	Cedar Bluff	176.8	118.7	86.7	101.2	173.8*
Laramie River	Wheatland	70.4	1.0		7.8	28.5
Belle Fourche	Belle Fourche	185.2	69.8	51.5	97.1	95.7*
Belle Fourche	Keyhole	190.3	18.1	5.0	8.6	
Shoshone River	Buffalo Bill	439.8	139.7	145.8	156.7	277.4
Wind River	Boysen	560.0	81.9	339.6	337.7	
Wind River	Pilot Butte	31.6	11.7	9.2	8.9	13.0*
Wind River	Bull Lake	152.0	72.6	66.3	84.9	63.7*
Cheyenne River	Angostura	92.0	77.3	31.9	30.0	52.0*
Cheyenne River	Deerfield	15.1		10.2	14.5	12.8*
Grand River	Shadehill	84.0		76.1	80.5	0*
Green River	Big Sandy	38.3	6.1	8.9	3.3	

* Average is for less than 15 years of record in the 1938-52 period.
** Alcova, downstream from Seminoe and Pathfinder and containing 160,170 acre feet of active storage that is unavailable to the Kendrick Project.

The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

FEDERAL

U. S. Department of Agriculture
Forest Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of the Interior
Bureau of Reclamation
National Park Service
Geological Survey

STATE

State Engineer of Wyoming

PRIVATE

Wheatland Irrigation District

Federal - State - Private

COOPERATIVE SNOW SURVEYS

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"